

Postgraduate Diploma

Microbiota in Neonatology and Pediatrics for Nursing





Postgraduate Diploma Microbiota in Neonatology and Pediatrics for Nursing

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-microbiota-neonatology-pediatrics-nursing

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01

Introduction

In recent years, there has been a growing interest in the study of the human microbiota to understand and correct possible dysfunctions or alterations in general health. Such research opens a door to the knowledge of multiple diseases, especially the so-called functional diseases, with the microbiome being the main workhorse of researchers. Aware of this, TECH professionals have designed this academic program that aims to train nurses to be able to understand the functioning of the Microbiome in neonates and pediatric patients. All this will provide them with the ideal background to work in various fields of medicine, with a greater guarantee of success. Thanks to its 100% online mode, the professional will be able to complete it from the comfort of their favorite device and choosing the best place and time for it.





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Improve your knowledge in Human Microbiota through this program, where you will find the best didactic material with real cases”

The microbiota that exists in the human organism is a current topic that is being studied and researched more and more. It undergoes changes as a consequence of the influence of multiple factors and is related to certain processes: allergic, acute and chronic intestinal diseases, obesity and metabolic syndrome, neurological diseases, dermatitis and other alterations in the dermis, and even some types of cancer.

According to the latest evidence, it is estimated that of the approximately 100 trillion cells that exist in the body, only 10% are human cells, while the rest correspond to fungi, bacteria and other microorganisms. Due to its importance, this program concentrates a teaching load chosen by the most experienced teachers to study in depth the Microbiota in Neonatology and Pediatrics for Nursing.

This program will provide students with all the latest information on the Microbiota, its Eubiosis and Dysbiosis, problems related to them, Probiotics and Prebiotics, with the growing market launch of new products with very specific strains for very specific problems and diseases, as well as the various clinical applications of research on the Microbiota for Health.

It will also delve into the influence of treatment with antibiotics and other psychotropic drugs on the baby's microbiota, taking into account the current lines of research. Infant feeding and the factors influencing the intestinal microbiota of the mother in the gestational stage and at the time of delivery, as well as the influence of the type of delivery on the microbiota of the newborn.

In this way, Nursing professionals will be up to date with all the scientific advances in this field in a 100% online way and through the multimedia resources available through the most modern, comfortable and secure online platform. Thus, you will be able to choose the best time for your update on the advances in Microbiota in Neonatology and Pediatrics for Nursing.

This **Postgraduate Diploma in Microbiota in Neonatology and Pediatrics for Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of case studies presented by experts in Human Microbiota for Nursing
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection work
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



The study of the Human Microbiota opens a door to the knowledge of multiple diseases, bringing great value to a nurse's curriculum"

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You will update your knowledge in Microbiota in Neonatology and Pediatrics, with the use of the latest educational technology, to contribute with quality and safety to the decision and safety to decision making in this innovative field"

This academic program 100% online will allow you to combine your studies with your professional work while increasing your knowledge in this field.

You will be updated on the factors that influence the balance and imbalance of the microbiota.

The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.



02 Objectives

The main objective of this Postgraduate Diploma is the development of theoretical and practical learning, so that the nurse can master in an updated and rigorous way the study of the Microbiota in the daily practice of their profession. In this sense, this program responds to the continuous demand in the area for professionals with the necessary background to use microbiological therapy as a preventive or therapeutic tool in maintaining the health of their neonatal or pediatric patients.





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You will be updated on the factors influencing the intestinal microbiota of the mother in the gestational stage and at the time of delivery”



General Objectives

- ♦ Offer a complete and wide vision of the current situation in the area of the Human Microbiota, in its widest sense, the importance of the balance of this Microbiota as a direct effect on our health, with the multiple factors that influence it positively and negatively
- ♦ To argue with scientific evidence how the microbiota and its interaction with many non-digestive pathologies, of autoimmune nature or its relation with the deregulation of the immune system, the prevention of diseases and as support to other treatments in the daily practice of nursing
- ♦ Promote work strategies based on the integral approach of the patient as a reference model, not only focusing on the symptomatology of the specific pathology, but also looking at its interaction with the microbiota and how it may be influencing it
- ♦ Encourage professional stimulation through continuous learning and research



This program contains the most complete and updated scientific program on the market thanks to the intervention of the most experienced teachers"





Specific Objectives

Module 1. Microbiota. Microbiome. Metagenomics

- ◆ Update and clarify general and key terms for a full understanding of the subject such as Microbiome, Metagenomics, Microbiota, Symbiosis, Dysbiosis
- ◆ Delve into how drugs with human targets can have a negative impact on the gut microbiota, in addition to the known impact of antibiotics

Module 2. Microbiota in Neonatology and Pediatrics

- ◆ Delve into the most influential factors of the intestinal microbiota of the mother, both in childbirth and in the gestation period itself
- ◆ Delve in the clinical applications of probiotics and prebiotics in the pediatric patient

Module 3. Probiotics, Prebiotics, Microbiota, and Health

- ◆ Know in depth the safety profile for probiotics, since, although their use has spread in recent years thanks to their proven efficacy, in both the treatment and prevention of certain diseases, this does not exempt them from generating adverse effects and potential risks
- ◆ Analyze the various clinical applications of probiotics and prebiotics in areas such as urology, gynecology, gastroenterology and immunology

03

Course Management

The program includes in its teaching staff reference specialists in Human Microbiota and other related areas, who pour into this training the experience of their work. In addition, other specialists of recognized prestige participate in its design and elaboration, completing the program in an interdisciplinary manner. All this, with the aim of providing Nurse with the most complete information and contents of the educational panorama so that they can practice their profession with greater guarantees of success and care for Neonates and Pediatric patients with a deeper knowledge of the functioning of their Microbiota.





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Learn from reference professionals, the latest advances in procedures in the field of Microbiotics in neonates and pediatric patients"

International Guest Director

Dr. Harry Sokol is internationally recognized in the field of **Gastroenterology** for his research on the **gut microbiota**. With more than 2 decades of experience, he has established himself as a true scientific authority thanks to his numerous studies on the role of **microorganisms in the human body** and their impact on **chronic inflammatory bowel diseases**. In particular, his work has revolutionized medical understanding of this organ, often referred to as the «**second brain**.»

Among Dr. Sokol's contributions, he and his team have opened a new line of advances on the bacterium **Faecalibacterium prausnitzii**. In turn, these studies have led to crucial discoveries about its **anti-inflammatory effects**, opening the door to **revolutionary treatments**.

In addition, the expert is distinguished by his **commitment to the dissemination of knowledge**, whether by teaching academic programs at the Sorbonne University or by publishing works such as the **comic book** *The Extraordinary Powers of the Belly*. His scientific publications appear continuously in **world-renowned journals** and he is invited to **specialized congresses**. At the same time, he carries out his clinical work at the **Saint-Antoine Hospital** (AP-HP/University Hospital Federation IMPEC/Sorbonne University), one of the most renowned hospitals in Europe.

On the other hand, Dr. Sokol began his **medical studies** at Paris Cité University, showing early on a strong interest in **health research**. A chance meeting with the eminent Professor Philippe Marteau led him to **Gastroenterology** and the enigmas of the **Intestinal Microbiota**. Throughout his career, he also broadened his horizons by training in the United States, at Harvard University, where he shared experiences with **leading scientists**. Upon his return to France, he founded his **own team** where he researches on **Fecal Transplantation**, offering state-of-the-art therapeutic innovations.



Dr. Sokol, Harry

- Director of Microbiota, Gut and Inflammation at Sorbonne University, Paris, France
- Specialist Physician at the Gastroenterology Department of the Saint-Antoine Hospital (AP-HP), Paris, France
- Group Leader at the Institut Micalis (INRA)
- Coordinator of the Center of Microbiome Medicine of Paris FHU
- Founder of the pharmaceutical company Exeliom Biosciences (Nextbiotix)
- President of the Fecal Microbiota Transplantation Group
- Medical Specialist in different hospitals in Paris
- Doctorate in Microbiology at the Université Paris-Sud
- Postdoctoral Fellowship at the Massachusetts General Hospital, Harvard University Medical School
- Degree in Medicine, Hepatology and Gastroenterology at Université Paris Cité



Thanks to TECH you will be able to learn with the best professionals in the world"

Guest Directors



Dr. María Isabel Sánchez Romero

- ♦ Area Specialist in the Microbiology Department of the Puerta de Hierro Majadahonda University Hospital, Madrid
- ♦ PhD in Medicine and Surgery from the University of Salamanca
- ♦ Medical Specialist in Clinical Microbiology and Parasitology
- ♦ Member of the Spanish Society of Infectious Diseases and Clinical Microbiology.
- ♦ Technical Secretary of the Madrid Society of Clinical Microbiology



Dr. María Francisca Portero Azorín

- ♦ Acting Head of the Microbiology Service at the Puerta de Hierro Majadahonda University Hospital
- ♦ Specialist in Microbiology and Clinical Parasitology at the Puerta de Hierro University Hospital
- ♦ Doctorate in Medicine from the Autonomous University Madrid
- ♦ Postgraduate in Clinical Management by Gaspar Casal Foundation.
- ♦ Research stay at the Presbyterian Hospital of Pittsburg through a FISS scholarship.



Dr. Teresa Alarcón Cavero

- Biologist Specialist in Microbiology, Princesa University Hospital
- Head of Group 52 of the Research Institute of the La Princesa Hospital.
- Degree in Biological Sciences with a major in Fundamental Biology from the Complutense University of Madrid.
- Master's Degree in Medical Microbiology from the Complutense University of Madrid.



Dr. María Muñoz Algarra

- Head of Patient Safety at the Microbiology Department of the Puerta de Hierro Majadahonda University Hospital.
- Area Specialist in the Microbiology Department of the Puerta de Hierro Majadahonda University Hospital, Madrid
- Collaborator Department of Preventive Medicine and Public Health and Microbiology Autonomous University of Madrid
- Doctorate in Pharmacy from the Complutense University of Madrid.



Dr. Marcos López Dosil

- Area Specialist in Microbiology and Parasitology at San Carlos Clinical University Hospital.
- Specialist Physician of the Microbiology and Parasitology Department of the Mostoles Hospital
- Master's Degree in Infectious Diseases and Antimicrobial Treatment from CEU Cardenal Herrera University
- Master's Degree in Tropical and Health Medicine from the Autonomous University of Madrid
- Expert in Tropical Medicine from the Autonomous University Madrid



Jorge Anel Pedroche

- Specialist Physician. Microbiology Department, Puerta de Hierro University Hospital, Majadahonda, Spain
- Degree in Pharmacy from the Complutense University of Madrid.
- Course in Interactive Sessions on Hospital Antibiotherapy by MSD
- Updating course on infection in hematologic patients by Puerta del Hierro Hospital.
- Attendance at the XXII Congress of the Spanish Society of Infectious Diseases and Clinical Microbiology.

Management



Ms. María Ángeles Fernández Montalvo

- ♦ Naintmed - Nutrition and Integrative Medicine
- ♦ Director of the Master's Degree in Human Microbiota at CEU University.
- ♦ Parapharmacy Manager, Nutrition and Natural Medicine professional at Natural Life Parapharmacy.
- ♦ Degree in Biochemistry from the University of Valencia
- ♦ Diploma in Natural and Orthomolecular Medicine
- ♦ Postgraduate in Food, Nutrition and Cancer: prevention and treatment.
- ♦ Master's Degree in Integrative Medicine from CEU University
- ♦ Specialist Degree in Nutrition, Dietetics and Diet Therapy
- ♦ Expert in Vegetarian, Clinical, and Sports Nutrition
- ♦ Expert in the current use of Nutricosmetics and Nutraceuticals in general.

Professors

Dr. Beatriz Rioseras de Bustos

- ♦ Microbiologist and renowned researcher
- ♦ Member of the Biotechnology of Nutraceuticals and Bioactive Compounds Research Group (Bionuc) of the University of Oviedo.
- ♦ Member of the Microbiology Area of the Department of Functional Biology.
- ♦ Collaborator of the Southern Denmark University
- ♦ Doctorate in Microbiology from the University of Oviedo.
- ♦ Master's Degree in Neuroscience Research from the University of Oviedo

Dr. Toni Gabaldon Estevani

- ♦ IRB and BSC senior group leader
- ♦ Co-founder and Scientific Advisor (CSO) of Microomics SL
- ♦ ICREA Research Professor and Group Leader of the Comparative Genomics Laboratory
- ♦ Doctor of Medical Sciences, Radboud University Nijmegen.
- ♦ Corresponding Member of the Royal National Academy of Pharmacy of Spain.
- ♦ Member of the Spanish Young Academy

Dr. José Uberos

- ◆ Head of section in the Neonatology area of the San Cecilio Clinical Hospital of Granada
- ◆ Specialist in Pediatrics and Child Care
- ◆ Associate Professor of Pediatrics, University of Granada
- ◆ Vocal Bioethics Research Committee of the Province of Granada (Spain)
- ◆ Coeditor of the Signs and Symptoms Journal
- ◆ Professor Antonio Galdo Award. Society of Pediatrics of Eastern Andalucía
- ◆ Editor of the Journal of the Pediatric Society of Eastern Andalusia (Bol. SPAO)
- ◆ Doctor of Medicine and Surgery.
- ◆ Degree in Medicine from the University of Santiago de Compostela
- ◆ Member of the Board of the Pediatric Society of Eastern Andalusia.

Dr. Rocío López Martínez

- ◆ Physician in the area of Immunology at the Vall d'Hebron Hospital.
- ◆ Internal Biologist in Immunology at Central University Hospital of Asturias.
- ◆ Member of the Immunotherapy Unit at the Clinic Hospital of Barcelona.
- ◆ PhD in Biomedicine and Molecular Oncology at the University of Oviedo.
- ◆ Master in Biostatistics and Bioinformatics, Universidad Oberta of Catalunya.

Ms. Eva Bueno García

- ◆ Predoctoral researcher in Immunosenescence at the Immunology Service of the Central University Hospital of Asturias (HUCA).
- ◆ Degree in Biology from the University of Oviedo
- ◆ Master's Degree in Biomedicine and Molecular Oncology from the University of Oviedo
- ◆ Molecular biology and immunology courses



Dr. Eduardo Narbona López

- ◆ Speciality Neonatal Unit, San Cecilio University Hospital
- ◆ Advisor to the Department of Pediatrics, University of Granada.
- ◆ Member of: Pediatric Society of Western Andalusia and Extremadura, Andalusian Association of Primary Care Pediatrics.

Dr. Antonio López Vázquez

- ◆ Immunology at the Central University Hospital of Asturias
- ◆ Collaborator of the Carlos III Health Institute
- ◆ Advisor of Aspen Medical
- ◆ Doctor of Medicine, University of Oviedo.

Dr. Silvia Pilar Gonzalez Rodríguez

- ◆ Deputy Medical Director, Research Coordinator and Clinical Chief of the Menopause and Osteoporosis Unit at Velázquez Medical Office.
- ◆ Specialist in Gynecology and Obstetrics at HM Gabinete Velázquez
- ◆ Medical Expert at Bypass Comunicación en Salud, SL
- ◆ Key Opinion Leader of several international pharmaceutical laboratories
- ◆ Doctor in Medicine and Surgery from the University of Alcalá de Henares, specializing in Gynecology.
- ◆ Specialist in Mastology by the Autonomous University of Madrid.
- ◆ Master's Degree in Sexual Orientation and Therapy from the Sexological Society of Madrid.
- ◆ Master's Degree in Climacteric and Menopause from the International Menopause Society.
- ◆ Postgraduate Diploma in Epidemiology and New Applied Technologies from the UNED (Spanish Distance Learning University)
- ◆ University Diploma in Research Methodology from the Foundation for the Training of the Medical Association and the National School of Health of the Carlos III Health Institute.

Ms. Carolina Rodríguez Fernández

- ◆ Research Biotechnologist at Adknoma Health Research
- ◆ Master in Clinical Trials Monitoring by ESAME Pharmaceutical Business School.
- ◆ Master's Degree in Food Biotechnology from the University of Oviedo.
- ◆ University Expert in Digital Teaching in Medicine and Health by CEU Cardenal Herrera University.

Dr. Felipe Lombó Burgos

- ◆ PhD in Biology and Head of the BIONUC Research Group, University of Oviedo.
- ◆ Head of the BIONUC Research Group, University of Oviedo.
- ◆ Former Director of the Research Support Area of the AEI Project.
- ◆ Member of the Microbiology Area of the University of Oviedo.
- ◆ Co-author of the research 'Biocidal nanoporous membranes with inhibitory activity of biofilm formation at critical points in the production process of the dairy industry'.
- ◆ Head of the study '100% natural acorn-fed ham against inflammatory intestinal diseases'.
- ◆ Speaker III Congress of Industrial Microbiology and Microbial Biotechnology

Ms. Marta Suárez Rodríguez

- ◆ Gynecologist specialized in Senology and Breast Pathology
- ◆ Researcher and University Professor
- ◆ PhD in Medicine and Surgery from the Complutense University of Madrid.
- ◆ Degree in Medicine and Surgery from the Complutense University of Madrid
- ◆ Master's Degree in Senology and Breast Pathology from the Autonomous University of Barcelona

Dr. Verónica Álvarez García

- ◆ Assistant Physician of the Digestive Area at the Río Hortega University Hospital.
- ◆ Specialist in Digestive System at the Central Hospital of Asturias
- ◆ Speaker at the XLVII Congress SCLECARTO
- ◆ Degree in Medicine and Surgery
- ◆ Digestive System Specialist

Dr. Juan Jesús Fernández Madera

- ◆ Allergologist at HUCA
- ◆ Former Head of the Allergy Unit, Monte Naranco Hospital, Oviedo.
- ◆ Allergy Service, Central University Hospital of Asturias.
- ◆ Member of: Alergonorte Board of Directors, SEAC Rhinoconjunctivitis Scientific Committee, Medicinatv.com Advisory Committee.

Dr. Celia Méndez García

- ◆ Research Biomedical at Novartis Laboratories Boston
- ◆ Doctorate in Microbiology from the University of Oviedo.
- ◆ Member of the North American Society for Microbiology.

Dr. Fernando Losa Domínguez

- ◆ Gynecologist at the Sagrada Familia Clinic of HM Hospitals
- ◆ Doctor in private practice in Obstetrics and Gynecology in Barcelona.
- ◆ Expert in Gynecoesthetics by the Autonomous University of Barcelona.
- ◆ Member of: Spanish Association for the Study of Menopause, Spanish Society of Phytotherapeutic Gynecology, Spanish Society of Obstetrics and Gynecology, Board of the Menopause Section of the Catalan Society of Obstetrics and Gynecology.





Dr. Aranzazu López López

- ◆ Specialist in Biological Sciences research
- ◆ Researcher at Fisabio Foundation
- ◆ Assistant Researcher at the University of the Balearic Islands
- ◆ PhD in Biological Sciences from the University of the Balearic Islands.

Dr. Rebeca Alonso Arias

- ◆ Director the Immunosenescence research group of the HUCA Immunology Service.
- ◆ Specialist Immunology Physician at the Central University Hospital of Asturias.
- ◆ Numerous publications in international scientific journals
- ◆ Research work on the association between the microbiota and the immune system
- ◆ 1st National Award for Research in Sports Medicine, 2 occasions

Dr. Patricia Verdú López

- ◆ Medical Specialist in Allergology at the Beata María Ana Hospital of Hermanas Hospitalarias.
- ◆ Physician specializing in Allergology at Inmunomet Health and Integral Wellness Center.
- ◆ Research physician in Allergology at San Carlos Hospital.
- ◆ Specialist in Allergology at the University Hospital Dr. Negrín in Las Palmas de Gran Canaria.
- ◆ Degree in Medicine from the University of Oviedo
- ◆ Master's Degree in Aesthetics and Antiaging Medicine at Complutense La University of Madrid

04

Structure and Content

The syllabus of this program has been designed by the team of professionals in Human Microbiota, chosen by TECH to provide a teaching of the highest quality and with all the guarantees to perform according to the latest evidence regarding Microbiota, Microbiome, Metagenomics, Probiotics and Prebiotics. A broad academic itinerary that incorporates the experience and research of the most renowned professors who have developed it, together with the most up-to-date information. The Nursing professional will have the opportunity to choose the best time and place to study, thanks to the methodology and state-of-the-art technology offered by this online Campus.





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This Postgraduate Diploma in Microbiota in Neonatology and Pediatrics for Nursing contains the most complete and updated scientific program on the market"

Module 1. Microbiota. Microbiome. Metagenomics

- 1.1. Definition and Relationship Between Them
- 1.2. Composition of the Microbiota: Types, Species and Strains
 - 1.2.1. Groups of Microorganisms that Interact with Humans: Bacteria, Fungi, Viruses, and Protozoa
 - 1.2.2. Key Concepts: Symbiosis, Commensalism, Mutualism, Parasitism
 - 1.2.3. Autochthonous Microbiota
- 1.3. Different Human Microbiota. General Overview of Eubiosis and Dysbiosis
 - 1.3.1. Gastrointestinal Microbiota
 - 1.3.2. Oral Microbiota
 - 1.3.3. Skin Microbiota
 - 1.3.4. Respiratory Tract Microbiota
 - 1.3.5. Urinary Tract Microbiota
 - 1.3.6. Reproductive System Microbiota
- 1.4. Factors that Influence Microbiota Balance and Imbalance
 - 1.4.1. Diet and Lifestyle. Intestine-Brain Axis
 - 1.4.2. Antibiotic Therapy
 - 1.4.3. Epigenetic-Microbiota Interaction. Endocrine Disruptors
 - 1.4.4. Probiotics, Prebiotics, Symbiotics. Concepts and Overviews
 - 1.4.5. Fecal Transplant, Latest Advances

Module 2. Microbiota in Neonatology and Pediatrics

- 2.1. Mother-Child Symbiosis.
- 2.2. Influencing Factors on the Gut Microbiota of the Mother During Pregnancy and During Birth. Influence of the Type of Delivery on the Microbiota of the New-born
- 2.3. Type and Duration of Breastfeeding, Influence on the Infant's Microbiota
 - 2.3.1. Breast Milk: Composition of the Breast Milk Microbiota. Importance of Breastfeeding in the New-born's Microbiota
 - 2.3.2. Artificial Breastfeeding. Use of Probiotics and Prebiotics in Infant Milk Formulas
- 2.4. Clinical Applications of Probiotics and Prebiotics in Pediatric Patients
 - 2.4.1. Digestive Diseases: Functional Digestive Disorders, Diarrhea, Necrotizing Enterocolitis. Intolerances
 - 2.4.2. Non-digestive Pathologies: Respiratory and ENT, Atopic Diseases, Metabolic Diseases. Allergies.
- 2.5. Influence of Antibiotic and other Psychotropic Treatment on the Microbiota of the Infant
- 2.6. Current Lines of Research





Module 3. Probiotics, Prebiotics, Microbiota, and Health

- 3.1. Probiotics
- 3.2. Prebiotics
- 3.3. Clinical Applications of Probiotics and Prebiotics in Gastroenterology
- 3.4. Clinical Applications of Endocrinology and Cardiovascular Disorders
- 3.5. Clinical Applications of Probiotics and Prebiotics in Urology
- 3.6. Clinical Applications of Probiotics and Prebiotics in Gynecology
- 3.7. Clinical Applications of Probiotics and Prebiotics in Immunology
- 3.8. Clinical Applications of Probiotics and Prebiotics in Nutritional Diseases
- 3.9. Clinical Applications of Probiotics and Prebiotics in Neurological Diseases
- 3.10. Clinical Applications of Probiotics and Prebiotics in Critically Ill Patients
- 3.11. Dairy Products as a Natural Source of Probiotics and Prebiotics
- 3.12. Safety and Legislation in the Use of Probiotics



A program designed to bring you up to date on the Microbiota in Neonatology and Pediatrics for Nursing in a 100% online mode"

05

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH Nursing School we use the Case Method

In a given situation, what should a professional do? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Nurses learn better, faster, and more sustainably over time.

With TECH, nurses can experience a learning methodology that is shaking the foundations of traditional universities around the world.



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, in an attempt to recreate the real conditions in professional nursing practice.

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Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”

The effectiveness of the method is justified by four fundamental achievements:

1. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.



The nurse will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.

At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is really specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch them as many times as you want.



Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



06

Certificate

The Postgraduate Diploma in Microbiota in Neonatology and Pediatrics for Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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*Successfully complete this program
and receive your university qualification
without having to travel or fill out
laborious paperwork”*

This private qualification will allow you to obtain a **Postgraduate Diploma in Microbiota in Neonatology and Pediatrics for Nursing** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University, is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** private qualification, is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Microbiota in Neonatology and Pediatrics for Nursing**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

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Postgraduate Diploma
Microbiota in Neonatology
and Pediatrics for Nursing

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- » Accreditation: 18 ECTS
- » Schedule: **at your own pace**
- » Exams: **online**

Postgraduate Diploma

Microbiota in Neonatology and Pediatrics for Nursing